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(54) NORBORNENE POLYMER BY RING OPENING
POLYMERIZATION AND PRODUCTION THEREOF

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(57) Abstract:

PURPOSE: To prepare a norbornene polymer contg. no gel and having a sharp MW distribution, excellent processability and usefulness as an optical material by polymerizing specific norbornene monomers in the presence of a linear olefin using a Ziegler type ring-opening polymn. catalyst.

CONSTITUTION: 100-50 pts.wt. norbornene monomer of the formula (wherein R₁ and R₂ are each H or alkyl; and m is 0-2) and 50wt.% or less other norbornene monomer copolymerizable by ring-opening polymn. with the former norbornene monomer (e.g., norbornene) are polymerized in the presence of pref. 10wt.% or less (based on the total amt. said two norbornene monomers) linear olefin (e.g., hexene-1) using a Ziegler type ring-opening polymn. catalyst comprising an organometal compd. contg. a metal of the group I-III of the periodic table (e.g., triethylaluminum), titanium tetrahalide, and an amine activator (e.g., triethylamine).

